

E-8140

Substitute Specification Ser. No. 10/789,072

METHOD AND APPARATUS FOR FORMING A RUBBER STRIP FOR TIRE MANUFACTURING,

AND TIRE MANUFACTURING METHOD

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8/23/2007

Field of the Invention

5 The invention relates to a method and apparatus for forming a rubber strip to be used for manufacturing a tire comprised of a plurality of rubber parts, and to a method of manufacturing a tire by use of thus formed rubber strip.

10 Background of the Invention

In general, the tire is formed of a plurality of rubber parts. Typically, as shown in FIG. 15, an inner liner rubber part 2, a tread rubber part 3, a side wall rubber part 4 and a rim strip rubber part 5, and the other part if any are formed of respective rubber materials or parts 15 corresponding to respectively required property. When to form such rubber part, a die in conformity with the sectional shape of each of the rubber parts is used in an extruder for continuously extruding each of the rubber parts. Subsequently, the desired rubber part is obtained by cutting the extruded article in a given length. The tire is built by sequentially bonding 20 the aforesaid rubber parts to one another on a rotary support body such as a tire building drum.

More recently, however, precision requirements for tire configuration or profile have become stricter. In addition, there is a problem associated with strain or shrinkage of the rubber parts, which 25 results from the process of continuously extruding the article from the